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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,123	12/09/2003	Tatsuo Sengoku	009683-488	4345
21839	7590 02/02/2005		EXAMINER	
	DANE SWECKER & M	PRUCHNIC, STANLEY J		
	POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404		ART UNIT	PAPER NUMBER
			2859	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/730,123	SENGOKU ET AL.				
Office Action Summary	Examin r	Art Unit				
	Stanley J. Pruchnic, Jr.	2859				
The MAILING DATE of this communication app Period for Reply	ears on the cover shet with the c	correspondenc address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is tess than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mety filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 13 D	ecember 2004.					
2a) ☐ This action is FINAL. 2b) ☑ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) 4-15 is/are withdrawn 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	n from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>09 December 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: a) \boxtimes accepted or b) \square object drawing(s) be held in abeyance. So the lion is required if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burear * See the attached detailed Office action for a list	s have been received. s have been received in Applica nity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage				
Attachment(s)	٠	(DTO 442)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/8/03/15HEFT)	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:					

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Election/Restrictions

- 2. Applicant's election without traverse of Group I (Claims 1-3) in the reply filed on 13 December 2004 is acknowledged.
- Claims 4-15 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 13 December
 2004.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Information Disclosure Statement

5. The references listed in the information disclosure statement (IDS) or PTO-1449 submitted by Applicant on 9 December 2003 are acknowledged. The cited references have been considered as indicated by the examiner's initials next to each reference considered.

However the foreign patent(s) and/or document(s) cited by applicant are considered only to the extent they could be understood from the abstract and drawings and Applicant's explanation of relevance in the Specification and partial translation.

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Claim Rejections - 35 USC § 103

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6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebihara *et al.* (U. S. Patent No. 4,237,420, hereinafter **EBIHARA**) in view of JP7/326714 (hereinafter **NISHIGAKI**).

Regarding Claim 1, **EBIHARA** discloses a temperature detection circuit including:

a signal output circuit (22) outputting a first signal (a) having at least one rising or falling portion;

a delay circuit (18) formed of at least one inverter (18) to output a delayed version (f) of said first signal;

a logic circuit (32) receiving said first signal and said delayed version of said first signal;

a pulse width measurement circuit (23) outputting

a signal asserted (Rx) in response to

a signal received (b) from said logic circuit

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having a pulse with a width of no less than a predetermined width corresponding to a temperature desired to be detected; and a latch circuit (26) latching a signal output from said pulse width measurement circuit,

said pulse width measurement circuit having

an integration circuit (capacitor 16; resistor 14) receiving a signal output from said logic circuit and

a Schmitt trigger circuit (34) receiving a signal output from said integration circuit,

said Schmitt trigger circuit having a trigger potential set to have a value corresponding to said predetermined width.

EBIHARA as described above, does not explicitly disclose said circuit is a semiconductor integrated circuit as claimed by applicant in Claim 1. **EBIHARA** as described above, does not claim the components located on semiconductor integrated circuits as claimed by Applicant in claims 2-3.

NISHIGAKI discloses components on separate semiconductor integrated circuits, e.g., the buffer circuit (inverter) 50 is located on a CPU in order to detect that chip's internal temperature. Moreover, it is well known in the art of temperature sensing that the pulse width measurement circuit would be affected by temperature changes.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to shift the positions of these components, in order to keep the pulse width measurement circuit away from the hottest areas so it will have more accurate results, and based on the intended use for the temperature dependent oscillator to measure the temperature of the CPU chip as taught by **NISHIGAKI**.

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Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in a form PTO-892 and not mentioned above disclose related temperature sensing devices and methods of signal detection.
 - LEMMENS (U. S. Patent No. 5,708,375 A)
 - MEHNERT (U. S. Patent No. 4,873,518 A)
 - YIN (U. S. Patent No. 6,695,475 B2)
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stanley J. Pruchnic, Jr., whose telephone number is (571) 272-2248. The examiner can normally be reached on weekdays (Monday through Friday) from 7:30 AM to 4:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached at (571) 272-2245.

The Official FAX number for Technology Center 2800 is (703) 872-9306 for <u>all</u> <u>official</u> communications.

Any inquiry of a general nature or relating to the status of this application or proceeding may be directed to the official USPTO website at http://www.uspto.gov/ or you may call the USPTO Call Center at 800-786-9199 or 703-308-4357. The Technology Center 2800 Customer Service FAX phone number is (703) 872-9317.

The <u>cited</u> U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, <u>all</u> U.S. patents and patent application publications are available on the USPTO web site (<u>www.uspto.gov</u>), from the Office of Public Records and from commercial sources.

Private PAIR provides external customers Internet-based access to patent application status and history information as well as the ability to view the scanned images of each customer's own application file folder(s).

For inquiries relating to Patent e-business products and service applications, you may call the *Patent Electronic Business Center (EBC)* at 703-305-3028 or toll free at 866-217-9197 between the hours of 6 a.m. and midnight Monday through Friday EST, or by e-mail at: ebc@uspto.gov. Additional information is available on the Patent EBC Web site at: http://www.uspto.gov/ebc/index.html.

Stanley J. Pruchnic, Jr. 1/10/05 DIEGO F. F. GUTIERREZ
SUPERVISORY PATENT EXAMINER
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